

INTERNATIONAL SEARCH REPORT

PCT/EP 03/10686

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N9/12 G01N23/20 G01N33/573

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, SEQUENCE SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 251 620 B1 (HOLT DENNIS A ET AL) 26 June 2001 (2001-06-26) cited in the application column 36 column 44	7-9, 18
Y	the whole document	1-5, 10-17
Y	ZHU X ET AL: "STRUCTURAL ANALYSIS OF THE LYMPHOCYTE-SPECIFIC KINASE LCK IN COMPLEX WITH NON-SELECTIVE AND SRC FAMILY SELECTIVE KINASE INHIBITORS" STRUCTURE, CURRENT BIOLOGY LTD., PHILADELPHIA, PA, US, vol. 7, no. 6, 1999, pages 651-661, XP000946108 ISSN: 0969-2126 the whole document	1-5, 10-18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

16 February 2004

Date of mailing of the international search report

26/02/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>LAMERS M B A C ET AL: "Structure of the protein tyrosine kinase domain of C-terminal Src kinase (CSK) in complex with staurosporine"</p> <p>JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 285, no. 2, 15 January 1999 (1999-01-15), pages 713-725, XP004459827</p> <p>ISSN: 0022-2836</p> <p>the whole document</p>	1-5, 10-18
A	<p>FUTTERER K ET AL: "Structural basis for syk tyrosine kinase ubiquity in signal transduction pathways revealed by the crystal structure of its regulatory SH2 domains bound to a dually phosphorylated ITAM peptide"</p> <p>JOURNAL OF MOLECULAR BIOLOGY, LONDON, GB, vol. 281, no. 3, 21 August 1998 (1998-08-21), pages 523-537, XP004462386</p> <p>ISSN: 0022-2836</p> <p>the whole document</p>	1-5,7-18
A	<p>MAO CHEN ET AL: "Crystal structure of Bruton's tyrosine kinase domain suggests a novel pathway for activation and provides insights into the molecular basis of X-linked agammaglobulinemia"</p> <p>JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 276, no. 44, 2 November 2001 (2001-11-02), pages 41435-41443, XP002267438</p> <p>ISSN: 0021-9258</p> <p>the whole document</p>	1-5,7-18
A	<p>YAMAGUCHI HIROTO ET AL: "Structural basis for activation of human lymphocyte kinase Lck upon tyrosine phosphorylation"</p> <p>NATURE, MACMILLAN MAGAZINES, US, vol. 384, no. 6608, 1996, pages 484-489, XP002147350</p> <p>ISSN: 0028-0836</p> <p>the whole document</p>	1-5,7-18

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 6
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☒ Claims Nos.: -
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 6

Concerning claim 6 the applicant's attention is drawn to Rule 39.1(v) PCT.

The subject-matter of claim 6 refers only to the presentation of structural information and is not regarded as patentable invention within the meaning of Rule 39.1(v) PCT. This information is disclosed e. g. as the atomic coordinates listings (or Tables) of a model, their use in a non-technical method, or said information is stored on a diskette/computer.

Thus, the above mentioned claim will not be searched in accordance with Article 17(2)(a)(i) PCT.

Continuation of Box I.2

Present claim 18 relates to a compound defined by reference to a desirable characteristic or property, namely as a ligand being identified by the methods of claims 12 to 14.

The claim covers all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claim so lacks support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claim also lacks clarity (Article 6 PCT). An attempt is made to define the compound by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the kinase inhibitor staurosporine (description, pages 22-23).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6251620	B1	26-06-2001	AU	6960696 A	19-03-1997
			CA	2226963 A1	06-03-1997
			EP	0847443 A1	17-06-1998
			JP	11510061 T	07-09-1999
			WO	9708300 A1	06-03-1997
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